ABSTRACT

Since a release voltage to a brake is applied by a plurality of series-connected contacts and at least one contact is a normally open contact of a relay for controlling a driving power supply of a motor, a control apparatus having a high safety characteristic for an industrial-purpose robot is provided, while even when fusion of a contact happens to occur, the control apparatus can firmly interrupt the application of the release voltage to the brake. Also, the control apparatus for the industrial-purpose robot is provided which need not be equipped with a power supply for releasing the brake by an operator in a manual manner.

To this end, in a control apparatus of an industrial-purpose robot (11) equipped with an electromagnetic type brake (23) which locks a shaft of a motor, the control apparatus is provided with a first relay contact (24) which is closed when the electromagnetic type brake (23) is released, and a second relay contact (22) which is closed when driving electric power is supplied to the motor; and the first relay contact (24), the second relay contact (22), and the electromagnetic type brake (23) are series-connected to a drive-purpose power supply (27) of the electromagnetic type brake (23).